

CLAIMS

What is claimed is:

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1. A surface-modified glove article for use on a human hand, comprising: an elastomeric matrix in the shape of a glove that receives the human hand therein, the matrix having an inside surface that contacts the human hand received within the hollow elastomeric glove shape, and an outside surface; and a plurality of colloidal silica particles adhered to at least a portion of the outside surface of the matrix but not extending through the thickness of the matrix, the colloidal silica particles being affixed to the outside surface of the matrix.

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The surface-modified article of claim 1, wherein the elastomer comprises natural latex.

3. The surface-modified article of claim 1, wherein the elastomer comprises a synthetic elastomer.

4. The surface-modified article of claim 1, wherein the elastomer comprises a nitrile rubber.

5. The surface-modified article of claim 1, wherein the colloidal silica particles have a maximum dimension of from about 10 nanometers to about 100 nanometers.

6. The surface-modified article of claim 1, wherein the colloidal silica particles are electrically conductive.

7. The surface-modified article of claim 1, wherein the colloidal silica particles further comprise

an electrically conductive surface treatment thereon.

8. The surface-modified article of claim 1, wherein the colloidal silica particles further comprise
a layer of an electrically conductive material on the surface thereof.

9. The surface-modified article of claim 1, wherein the colloidal silica particles further comprise
a layer of aluminum chlorhydrate on the surface thereon.

10. The surface-modified article of claim 1, further including
a inside surface treatment on the inside surface of the glove shape.

11. The surface-modified article of claim 1, wherein there is no separate binder material affixing the colloidal silica particles to the outside surface.

12. A surface-modified article, comprising:
an elastomeric matrix having a surface; and
a plurality of colloidal silica particles adhered to at least a portion of the surface of the matrix but not extending through the thickness of the matrix, the colloidal silica particles being affixed to the surface of the matrix without any separate binder material affixing the colloidal silica particles to the surface.

13. The surface-modified article of claim 12, wherein the colloidal silica particles are electrically conductive..

14. A method for making an elastomeric article, comprising the steps of:
providing a mold whose surface defines at least a portion of the surface of the elastomeric article;
preparing a coating composition comprising a plurality of colloidal silica

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particles:

applying the coating composition to a surface of the mold;
contacting a flowable elastomer to the coated surface of the mold;
allowing the flowable elastomer to coalesce against the coated surface; and
separating the coalesced elastomer from the mold surface

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15. The method of claim 14, wherein the elastomeric article is a glove.

16. The method of claim 14, wherein the coating composition further comprises a coagulant.

17. The method of claim 14, wherein the flowable elastomer comprises natural latex.

18. The method of claim 14, wherein the flowable elastomer comprises a synthetic elastomer.

19. The method of claim 14, wherein the flowable elastomer comprises a nitrile rubber.

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